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HEH

19 June 1958

MEMORANDUM TO : CHIEF, TSS/PHOTOGRAPHIC SUPPORT DIVISION

THROUGH : AC/TSS/HAD
AC/TSS/TA

SUBJECT : Transfer of One (1) Complete 35 mm Time Lapse Camera.

1. Attached hereto is a report on subject unit for your information and retention.

2. One unit complete with Operating Instructional Manual.

One (1) camera body
 Four (4) magazines
 Seven (7) lenses
 Eighteen (18) filters
 One (1) range finder
 One (1) battery
 One (1) basic cable
 Three (3) extension cables
 One (1) boresight

 C/TSS/APD/CB

25X1

APPROVED:

 C/TSS/APD
Attachment:
Report

Distribution:

Orig. & 1 - Addressee
 1 - TSS/SFB
 1 - AEH
 2 - TSS/APD

TSS/APD/AEH:vs (19 June 58)

*PSD picked up
unit from APD on
2nd July 1958
for listing.*

008632

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1. Name of Device: 35 mm Time Lapse Camera
2. APD Project Number, Contractor, and Contract Number: Project 125D, R & D 113, Task 3. 25X1
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3. Classification and Sterility: SECRET
4. Number of devices submitted for evaluation with this report: One (1) Prototype.
5. Additional numbers on hand: None
6. Future delivery: Five (5)
7. Additional procurement plans: Certain improvements to simplify design to increase reliability and lessen power drain on the battery will be incorporated in the additional five (5) units.
8. Requirement source and date: TSS/PSD, May 1956
9. Pertinent references: The unit originated in TSS/APD during the first months of 1956 and references are in the project folder P-125D on file in APD
10. General purpose of device: To operate unattended at a preset interval over a period of predetermined hours or days.
11. Unusual features and outstanding characteristics: The unusual feature of this unit is the Automatic Shutter Control. Another is range of time lapse settings. The intervals are: 1 second, 5 seconds, 10 seconds, 30 seconds and 60 seconds; 5 minutes, 10 minutes, 15 minutes, 20 minutes and 60 minutes.

Seven (7) lenses: 1 inch, 2 inches, four inches, 6 inches, 12 inches, 18 inches and 24 inches.

Four magazines: 100 feet, 200 feet, 400 feet and 1000 feet.

Silver cell 24 volt battery

40 amp hours

Unit can be started manually or by radio frequency; sound waves or light waves.
12. Known limitations and shortcomings: The one (1) second interval will skip a frame occasionally.

The boresight is too low in magnification. A new one of eight power with cross hairs and more efficient will be supplied for this unit.

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- 2 -

12. (con't)

Reasonable professional and technical skill is required to operate the unit in order to make use of the full range of unit capabilities.

13. Status of operating instruction manual: Complete and one (1) copy supplied with prototype.
14. Status of service and maintenance manual including circuit diagrams: The circuit diagrams are included in the operating manual.

It is recommended that the camera be returned to manufacturer for servicing or repair.

15. Status of specifications and manufacturing drawings: At

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16. Report of technical tests and evaluations and where available: TSS/APD

17. Suggested operational tests: For security reasons the camera should be operated during the testing period

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18. In addition to the report on operational tests, comments are requested on the following specific features:

The number of focal lengths supplied,
The manufacturer of this family of lenses,
The range of A.S.A ratings,
The range of shutter speeds,
The range of time lapse settings,
The size and weight of battery,
The number of magazines supplied,
The range of filters supplied.

NOTE: A polaroid filter will be provided.

19. Project Engineer and contact in APD for additional information:

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20. Report on operational evaluation requested: As soon as possible.